

# ABHIRAJ CHAUDHURI

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## SUMMARY

Passionate about delving into the realms of AI/ML, data science, and statistics. Enthusiastic about cultivating expertise in machine learning algorithms and AI applications for impactful solutions.

## PROJECTS

- Terrain Classifier** | *Vision Transformers, PyTorch, OpenCV, TorchVision* Tinkerthon Hackathon 2.0
- Compiled a custom dataset including drone and satellite images of Forests, Deserts and Mountains using web and manual scraping
  - Utilized Vision Transformers (ViT) treating images as patch sequences, for improved landscape pattern recognition
  - Trained model with augmented dataset, optimizing parameters for minimal loss function, ensuring accurate predictions
  - Achieved 97% accuracy through rigorous training, validating model's effectiveness in terrain recognition
  - Secured First Runner's Up position in the Hackathon, reflecting exceptional team collaboration
- Scientific Document Parser and Chat** | *Python, Flask, Mistral 7B, Langchain, RAG* MINEd 2024 Hackathon
- Implemented a document search and chat web application using Flask, Python, and Mistral 7B
  - Developed parsers for PDF, PPTX, DOCX, TEX, HTML, and TXT file types, implementing chunking for efficient data processing
  - Integrated OCR for extracting text from images in documents, alongside image captioning algorithms
  - Collaborated with team members to plan and execute tasks, gaining valuable problem-solving experience
- Student Management System** | *PHP, MySQL, Apache XAMPP server* Personal Project
- Developed a web application using PHP and MySQL, applying session management protocols
  - Implemented user authentication with login functionality, including options for password recovery
  - Designed an intuitive dashboard interface to effortlessly manage student records, incorporating pagination
  - Provided functionalities for adding, editing, and deleting student records directly from the dashboard, with real-time updates reflected in the MySQL database
  - Created a user management section exclusively accessible to administrators, enabling management of system users

## SKILLS

**Programming Languages:** Python, JavaScript, Java  
**Backend Technologies:** Flask, Django, Node.js  
**Data Science:** Statistics, NumPy, Pandas, Matplotlib, Seaborn, PyTorch, OpenCV, Neural Networks  
**Frontend Technologies:** HTML5, CSS3, Reactjs  
**Databases:** SQL(MySQL), MongoDB  
**Developer Tools:** Git, GitHub, AWS, VS Code, Visual Studio, DSA  
**Design Tools:** Figma, Adobe Photoshop, Adobe Illustrator, Canva  
**Interpersonal Skills:** Leadership, Quick Grasping, Problem Solving, Team Collaboration

## EDUCATION

**Navrachana University** Vadodara, Gujarat  
*Bachelor of Computer Applications – 9.09 CGPA* August 2022 – May 2025

**Navrachana Higher Secondary School** Vadodara, Gujarat  
*CBSE Class XII, Humanities – 84%* May 2020 – June 2022

## PROFESSIONAL CERTIFICATIONS

**AWS Academy Machine Learning Foundations** | AWS Academy Graduate Issued – March 2024  
**AWS Academy Introduction to Cloud Semester 1** | AWS Academy Graduate Issued – December 2023  
**Web Development** | Internshala Trainings Issued – May 2020